

3103

United States of America
 Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA5028NM

This certificate, issued to WILLIAM A. DUTTON

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 04 of the Civil Air Regulations, as amended to May 1, 1938.

Original Product — Type Certificate Number: A-696

Make: Taylorcraft

Model: BC12-D, Landplane only, S/N 7274 Only

Description of Type Design Change: Installation of a Continental O-200-A Engine, McCauley 1A101/DCM Propeller, and associated installation components in accordance with William A. Dutton Report, dated June 19, 1989, or later FAA approved revision. FAA Approved William A. Dutton Supplemental Flight Manual No. 1 for Taylorcraft BC12-D, dated January 23, 1991, also is required as part of this installation.

Limitations and Conditions:

Data pertaining to this modification are considered inadequate for duplication in other aircraft. This approval is limited to the installation made in Taylorcraft Model BC12-D, Serial No. 7274 only. Conversion of Model BC12-D to the equivalent of BC12-D-85 in accordance with STC SA1-210 is required with this installation.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 19, 1989

Date issued:

Date of issuance: February 8, 1991

Date amended:



By direction of the Administrator

[Signature]
 Acting Manager, Los Angeles Aircraft
 Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

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The conditions & limitations of Aircraft Specification No. A-696 apply except as follows:

This Addendum, which is part of Supplemental Type Certificate No. SA5028NM, prescribes conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Civil Air Regulations. A copy of this Addendum shall be maintained as part of the modified aircraft's permanent records.

I - Model BC12-D, 2PCLM

Engine: Continental O-200-A

Fuel: 80 Minimum Grade Aviation Gasoline

Engine Limits: For all operations, 2500 RPM (91HP)

Propeller and McCauley 1A101/DCM

Propeller Limits: Diameter: Not over 69 in.

Not under 67 in.

Static r.p.m. at maximum permissible throttle setting:
Not over 2500, not under 2400. No additional tolerance permitted.

Airspeed Limits: Landplane: Level flight or climb 105 m.p.h. (ref.)
Glide or dive 140 m.p.h.

Maximum Weight: Landplane: 1280 lbs.

Fuel Capacity: 24 gals. total, 21 gals. usable (12 gal. tank in fuselage at -9 and 6 gal. tank in each wing at +24). See NOTE 1 for data on unusable fuel.

Oil Capacity: 6 Qts. (-29.4)

Powerplant
Instrument
Markings:

Tachometer: Maximum 2500 RPM (Red radial)

Normal Operating,
2200 RPM to 2500 RPM (Green arc)

Oil Temperature: Maximum 240°F (Red Radial)

Oil Pressure: Maximum 60 psi (Red Radial)

Normal 30 psi to 60 psi (Green arc)

Caution 10 psi to 30 psi (Yellow arc)

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Required Equipment: In addition to the equipment applicable and required by Aircraft Specification No. A-696, the equipment specified by William A. Dutton Report, dated June 19, 1989, must be installed as a result of the incorporation of this STC.

NOTE 1. Current weight and balance report including list of equipment included in certificated empty weight, and loading instructions when necessary, must be in the aircraft. The certificated empty weight and corresponding center of gravity location must include unusable fuel of 18 lbs. (-9) fwd. tank).

NOTE 2. The following placards must be installed:

- a. At the engine oil filler cap: "Oil 6 Quarts"
- b. At the left and right wing auxiliary fuel tank filler caps:
"FUEL - 80 MIN. GRADE AVGAS - CAPACITY 6 GAL."
- c. On the instrument panel near the auxiliary fuel transfer valve:
"FUEL CAPACITY 24 GAL. (21 USABLE)"
"AUX. WING TANK USABLE FUEL 6 GAL." (left side of panel)
"REFILL MAIN TANK WHEN LESS THAN HALF EMPTY IN LEVEL FLIGHT ONLY"
(center of placard)
"AUX WING TANK USABLE FUEL 6 GAL." (right side of placard)
- d. At the main fuel shutoff valve
"FUEL SHUTOFF - PULL OFF"
- e. At the Starter Control
"STARTER PULL ON"

-THE END-

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